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TITLE: AUTOMATIC PROGRAM GENERATING SYSTEM  
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INVENTOR-INFORMATION:

NAME  
CHIGIRA, HIDEKI  
YOKOYAMA, TAKEHIRO  
AOE, HIDEO

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI LTD	N/A
HITACHI SEIBU SOFTWARE KK	N/A

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ABSTRACT:

PURPOSE: To prevent an error from going in at the time of maintenance and extension work by registering in advance a model (parts pattern) of a program, bringing a macro part in the parts pattern to replacement (macro expansion) by an actual processing object name, a data type, etc., and deforming it to the program.

CONSTITUTION: By the title system, a parts pattern in which data (processing object information) and a procedure are related to each other can be registered, and also, in order to generate automatically a program for handling the data of a complicated structure, a program for handling the data of a more

complicated structure is synthesized from a program for handling the data of a simple structure, based on a type constituent parts pattern. By forming a pair by the processing object information and a procedure thereto, and limiting an operation to the processing object information, for allowing such errors as the processing object information is rewritten in an unexpected place, a reference and updating are executed by an inappropriate method, to go in at the time of maintenance and extension is decreased.

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